A security shield for protection of the shackle of a padlock makes use of a sheet of metal of relatively heavy gage which has one portion bent to a position where it overlies one side of the shackle when the shackle is in locked position on the body of the padlock making it difficult for an unauthorized person with an appropriate rod cutter or chisel to cut through the shackle and release the padlock. The shield is attached to the padlock itself, either permanently or temporarily, by use of a second portion of the sheet of metal bent to a suitable position where it is attached to and carried by the body of the padlock.
SECURITY SHIELD FOR PADLOCK

For such places, for example, as garages and mini-
storage facilities padlocks are commonly used for secur-
ing the doors, especially for securing large overhead
type doors. A variety of types of hasps are available for
mounting on the door or door frame and one frequently
made use of features a sliding latch bolt capable of being
locked by insertion of the shackle of a padlock through
a hole in a bracket over which a loop of the latchbolt
has been applied. For other types of hardware the
shackle may be used to interconnect a pair of adjacent
rings, or perhaps a ring projected through a slot in a
latch plate.

Irrespective of the type of hasps which may be em-
ployed the shackle of the padlock is usually exposed
where an unauthorized person with, for example, a
cable cutter, or other appropriate tool, can cut through
the shackle and release the lock. On other occasions a
padlock may be sprung by a sharp heavy blow against
the body frequently in a direction away from the
shackle.

In an effort to minimize the opportunity to forcibly
open a padlock by one or another of the ways made
reference to various shields have been employed. For
the most part such shields have been built into the hasp,
and on some occasions have actually been mounted on
the latchbolt itself so as to always be in a position pro-
tecting the latch bolt against forceable release.

It is among the objects of the present invention to
provide a new and improved security shield for the
shackle of a padlock which is mounted on the padlock
itself rather than on the hardware to which the padlock
may be attached.

Another object is to provide a new and improve
security shield for a padlock which has a permanent
attachment to the padlock so that it can not be readily
removed and misplaced.

Still another object of the invention is to provide a
new and improved security shield for a padlock of such
character that it can be applied to the body and shackle
of a conventional padlock when the shackle is unloked
but which becomes anchored in place when the shackle
is locked, thereby to place a protecting shield in a
guarding position adjacent to the shackle and substan-
tially minimize the prospect of unauthorized tampering
and vandalism with respect to the padlock.

Still further among the objects of the invention is to
provide a new and improved security shield for a pad-
lock carried by the padlock itself independent of the
door hardware with which it may be used, and which is
anchored sufficiently close to the shackle so as to
greatly inhibit forceable release of the padlock as by
cutting the shackle.

Included further among the objects of the invention is
to provide a new and improved padlock security shield
of simple rugged construction which is automatically
positioned in the most effective protecting location for
the padlock when the padlock is locked, and irrespec-
tive of the hardware which may be chosen for securing
a door in closed position.

With these and other objects in view, the invention
consists in the construction, arrangement, and combina-
tion of the various parts of the device, taken as examp-
es of acceptable forms of the invention, though not ex-
pressly limited to the forms shown, whereby the objects
contemplated are attained, as hereinafter set forth, illus-
trated in the accompanying drawings and pointed out in
the appended claims.

FIG. 1 is a side elevational view of one form of the
invention applied to a laminated padlock and with the
padlock locked in position on a hasp for a garage type
door.

FIG. 2 is a longitudinal sectional view on the line
2—2 of FIG. 1.

FIG. 3 is a side perspective view of a padlock pro-
vided with a security shield of FIG. 1.

FIG. 4 is a side elevational view, partially in section,
showing a second form of the invention applied to a
conventional padlock body, in position on a hasp.

FIG. 5 is a side perspective view of the security shield
of FIG. 4 with the hasp in open position.

FIG. 6 is a side elevational view partially in section
showing a third form of the invention applied to a con-
ventional padlock body, and

FIG. 7 is a side perspective view of the security shield
of FIG. 6 with the hasp in open position.

In an embodiment of the invention in one of several
forms chosen for the purpose of illustration there is
shown a conventional door 10 provided with a conven-
tional hasp 11 mounted on the door 10 by use of bolts
12. The hasp 11 consists of a backplate 13, a pair of
brackets 14 and 15 in transverse alignment and a second
pair of brackets 16 and 17, likewise in transverse align-
ment.

A latch bolt 18 has axially aligned legs 19 and 20 with
the leg 19 extending through a hole 21 in the bracket 14
and leg 20 extending through a hole 22 in the bracket
15. Parts of the legs 19 and 20 extend in the form of a
loop 23 with opposite sides spaced from each other and
adapted to overlie either the bracket 16, as in FIG. 1, or
the bracket 17.

In the first described embodiment of the invention use
is made of a conventional padlock having a body 25
composed of laminations 26 and a shackle with a cap-
tive leg 27, a free leg 28 and an end portion 29 intercon-
necting outer ends of said legs. The shackle is adapted
to engage either a hole 30 of the bracket 16 or a hole 31
of the bracket 17.

A security shield 35 for this form of the invention is
made of relatively heavy gage sheet metal with a guard
section 36 and an anchor section 37 in an angular rela-
tionship. The guard section is sufficiently large so that it
overlies the end portion 29 and both legs 27 and 28 of
the shackle, on one side of the shackle and spaced a
slight distance from it.

The anchor section 37 of the security shield is slightly
larger than the laminations 26 of the padlock body and
lies intermediate end laminations of the body where it is
secured by conventional rivets 40. A hole 41 accomo-
dates one leg 27 of the shackle and a hole 42 accomo-
dates the other leg 28 with a free sliding fit. When the
security shield is in position with the shackle locked the
guard section of the shield is spaced close to the shackle
and in a position such that it is difficult for an unautho-
rized person either to cut the shackle with a rod cutter,
or to effectively strike the padlock body with an appro-
priate instrument to jar the shackle loose, whereby to
force the padlock open.

In the second form of the invention of FIGS. 4 and 5
a padlock 50 has been pictured having a body 51 devoid
of laminations. The shackle comprises legs 52 and 53
joined by an outer end 54. In this form one leg 52 is
shown as a pivoting captive leg. Clearly a padlock hav-
ing both legs adapted to be freed can also be ac-
commodated by the various security shields. An appropriate conventional key hole (not shown) is adapted to be provided at the end of the body 51 remote from the shackle for manipulation by a conventional key 58.

In this form of the invention the anchor section is a composite section having a first portion 56 adapted to overlie the shackle end of the padlock 51, a second portion 57 adapted to overlie the opposite end and a third portion 58 interconnecting the first and second portions. To accommodate the legs 52 and 53 of the shackle there are provided respective apertures 59 and 60. A guard section 61 is similar to the guard section 36 of FIGS. 1, 2 and 3 and performs in a comparable manner.

To apply the security shield 50 to a padlock the shackle is first unlocked and swung to a laterally open position as shown by the broken lines of FIG. 50. The leg 53 is then inserted into the underside of the aperture 60, there being adequate clearance, and the shield 50 then swung over the shackle to the position of FIG. 5. Once the shackle is fastened in locked position as in FIG. 4, the security shield is held in place by action of the shackle and cannot be removed except by first unlocking the padlock. The second portion 57 being narrow allows room for the key 55 to be operated.

For the form of invention of FIGS. 6 and 7 a slightly different structure is embodied in an anchor section 70 of a security shield 71. Guard section 72 remains generally the same, except for being provided with a protective flange 73. Of the anchor section 70, a first portion 74 overlies the shackle end of the padlock, a second portion 75 overlies the opposite end and a third portion 76 interconnects the first and second portions 74 and 75. In this form there is an additional lip 77 which overlies the side of the padlock body 51. A hole 78 is made in the portion 75 for accommodation of a conventional key hole (not shown) and key 78.

To make possible attachment of the form of invention of FIGS. 6 and 7 to a padlock having a body 51 and shackle similar to that of FIGS. 4 and 5 a somewhat modified aperture is needed, for manipulation of the shield into position. For Example, the aperture 80 is in the form of a side open slot, as is also the aperture 81. The aperture 81, for example, corresponding to the pivotally mounted leg 52, is applied over the leg 52 when the shackle is in unlocked open position as shown by the broken lines of FIG. 7. When the padlock with the security shield 71 is then attached to the hasp and the leg 53 pushed into locked position, the leg extends through the aperture 80 and fastens the security shield in place on the padlock.

Having described the invention, what is disclosed as new in support of Letters Patent is as follows:

What is claimed is:

1. A security shield for protection of a padlock of the type which has a body and a shackle, the shackle having legs and an end portion joining the legs arranged so that the legs have an open position and a locked position, said shield comprising a guard section and an anchor section, said guard section having a guarding position spaced laterally at a substantial distance from said legs and said end portion and overlying the shackle at one side only of said shackle when the shackle is in locked position, said anchor section having a mounting on the body, both sections having positions relative to each other providing a clear space enabling the shackle to move clear of the body to open position.

2. A security shield as in claim 1 wherein the guard section is a plate which overlies only one side of the outer end and both legs of the shackle and the anchor section is a plate in engagement with the body.

3. A security shield as in claim 1 wherein the anchor section is anchored to the body at a location spanning the location of the shackle on the body when the shackle is in locked position and providing holes for reception of the shackle.

4. A security shield as in claim 1 wherein the guard section and the anchor section are plates in an angular relationship to each other, the anchor section being anchored on the body at the end adjacent the shackle leaving the body exposed and the guard section being spaced laterally from the shackle.

5. A security shield for protection of a padlock of the type which has a body and a shackle, the shackle having legs and an end portion joining the legs arranged so that the legs have an open position and a locked position, said shield comprising a guard section and an anchor section, said guard section having a guarding position overlying the shackle at one side thereof when the shackle is in locked position, said anchor section having a mounting on the body, both sections having positions relative to each other providing a clear space enabling the shackle to move clear of the body to open position, the body of the padlock comprising a plurality of laminations and the anchor section being anchored between adjacent laminations.

6. A security shield for protection of a padlock of the type which has a body and a shackle, the shackle having legs and an end portion joining the legs arranged so that the legs have an open position and a locked position, said shield comprising a guard section and an anchor section, said guard section having a guarding position overlying the shackle at one side thereof when the shackle is in locked position, said anchor section having a mounting on the body, both sections having positions relative to each other providing a clear space enabling the shackle to move clear of the body to open position, the anchor section being a composit section with a first portion having aperture means for reception of the legs of the shackle, a second portion underlying the body of the padlock on the side opposite said legs and a third portion interconnecting said first and second portions.

7. A security shield as in claim 6 wherein the padlock body has a key hole and there is an opening in one of said portions at a location coinciding with said key hole.

8. A security shield as in claim 6 wherein the aperture means in the first portion are entirely surrounded by material of said first portion.

9. A security shield as in claim 6 wherein the aperture means in said first portion are open at opposite sides whereby to enable said anchor section to be attached in position around the shackle when the shackle is in open position.

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